# CheckMate® V
## Model RT-U50-25S
## Universal Remote Control

## Programming & Operating Instructions

To have a clearer idea of the features and capabilities of your remote control, take a moment to carefully read these instructions
Save for future reference.

## 1. Introduction

Your Checkmate® V, Model RT-U50, universal remote control is simple to program, easy to use, and can operate up to five (5) electronic devices, which include:

| | |
|---|---|
| **CABLE** | Cable set-top terminals |
| **TV** | Televisions |
| **VCR** | VCR |
| **DVD** | DVD |
| **AUDIO** | Receivers, amplifiers, CD players |

Before you can use your remote control, it must be programmed (set-up) to operate the above devices.

## 2. Before Getting Started

Some of the special features on your remote control are:

### Point and Press® Programming

Lets you program your TV, VCR, DVD and AUDIO devices without using codes. For more information, see Sections 5 and 14.

### SmartKeys™

Program multiple button presses on the [CABLE] and [TV] buttons. For more information, see Section 9.

### Mode Lock™

Your model RT-U50 remote comes "locked" in its cable operating mode. To operate more functions on your TV, VCR, DVD or AUDIO devices, see Section 11.

### [DEVICE] Button

The [DEVICE] button operates only when Mode Lock™ feature is unlocked. When [DEVICE] is pressed, one of the power buttons will light up indicating the current device being operated. While the current mode power button is illuminated, press a non-illuminated power button to operate a different device.

### [VCR / DVD / VOD] Button

Press and hold to "toggle" the transport (Play, Stop, Rew...) buttons between Cable (Video-On-Demand), VCR or DVD functions.

### Memory Guard®

Eliminates reprogramming after battery changes.

### Time Out

Shuts remote off if any button is pressed and held for 45 seconds. This extends battery life in the event the remote becomes lodged under or between heavy objects.

### Reset

Lets you reset your remote to its original default settings. For more information, see Section 12.

## 3. Installing / Replacing Batteries

Install two (2) <u>new</u> AAA alkaline batteries. Properly match the "+ / -" ends of the batteries with the diagram in the battery compartment.

Low Battery Indication - when the batteries become low and need to be replaced, the [CABLE], [TV], [VCR], [DVD], [AUDIO] buttons will not illuminate normally, or at all, during operation. When this happens, install two (2) <u>new</u> AAA <u>alkaline</u> batteries to restore normal operation to the remote control.

Your remote control has Memory Guard™, which eliminates reprogramming after battery changes.

## 4. Programming Cable Set-Top Terminal

**Your CheckMate® V remote is <u>pre-programmed</u> to operate a UEC digital set-top terminal.**

To operate a different cable set-top terminal, look up the brand and model in the Cable Setup Code list. If you are not sure of your brand and model, contact your cable operator.

1. Press [SELECT] then [MUTE] together until the power / mode buttons illuminate in slow-rotation (i.e. CABLE → TV → VCR → DVD → AUDIO → CABLE.

2. From the Cable Setup Code list, locate the 3-digit code for your brand / model and enter it on the keypad of the remote control. The cable set-top terminal will turn off.

3. Then, press [SELECT] to lock in the code. The power / mode buttons will blink 3-times and go out.

### Cable Setup Codes

| | |
|---|---|
| UEC | 001 |
| Motorola | |
|    DCT, CFT2200 | 001 |
|    CFT2100, CFT2000 | 002 |
| Jerrold | |
|    DL4, DP(V), DQN(V), DPBB | 003 |

Scientific Atlanta
| | |
|---|---|
| Explorer® | 004 |
| Explorer® (#, *) | 010 |
| Explorer® (Blue Ridge) | 011 |
| Explorer (WorldGate™) | 012 |
| 8600X | 005 |
| 8600 | 006 |

Pace
| | |
|---|---|
| 510 Digital | 004 |
| HD Digital | 010 |

Pioneer
| | |
|---|---|
| Voyager™ | 004 |
| BA-V1000, BA-V2000 | 007 |

Tocom
| | |
|---|---|
| 5503VIP, 5507, 5508 | 008 |

Zenith
| | |
|---|---|
| MM 2500 | 009 |
| Digital | 013 |

## 5. Programming TV, VCR, DVD, AUDIO Devices

**Code Entry Programming**

1. Turn on all the electronic devices (TV, VCR, DVD, AUDIO) you want to program the remote to operate.

2. Press [SELECT] then [MUTE] together until the power / mode buttons illuminate in slow-rotation (i.e. CABLE→ TV → VCR → DVD → AUDIO → CABLE…).

3. a. To program your TV, locate the 3-digit code for your brand in the TV Setup Code list and enter it on the keypad of the remote control. Entry of the correct code will cause your TV to turn off. If multiple codes are listed for your brand, you may have to enter different codes until your TV turns off.

   b. As soon as you have entered a 3-digit code that turns your TV off, press [MUTE].

      1. If the TV turns back on, press [SELECT] to lock in the code. The power / mode buttons will blink 3-times and go out.

         Or

      2. If the TV does not turn back on, enter a different 3-digit setup code until your TV turns back on. Then press [SELECT] to lock in the code. The power / mode buttons will blink 3-times and go out.

4. To program your VCR or DVD, refer to the VCR or DVD Setup Code lists and repeat steps 2 and 3 above.

5. To program your AUDIO equipment, refer to the AUDIO Setup Code list and repeat steps 2 and 3 above.

### Point and Press® Programming

This method allows you to program the remote control without using codes. Instead, the remote control automatically finds the correct command that you select in a variety of codes until you find the code that operates your device. You then lock in the correct code as described below.

The following instructions describe how to program your remote control using the [CH ▲] or [CH ▼] buttons ("Power" function during programming). You may also program your remote control using other buttons / functions as described in Section 14. When using this method, there are several important points to remember:

- The order in which you program your electronic devices is not important.

- There may be several codes that turn your electronic devices on / off (or perform other functions). Once you lock-in a code, be sure to check the available functions for that device (i.e. TV - Vol ▲/▼, Mute, TV Input , VCR - Play, Stop..., DVD - Play, Stop..., AUDIO - Vol▲/▼, Mute) to see if they are operating.

- While the remote is searching for the correct setup code(s) for your electronic devices, it is possible that other (previously programmed) devices may turn on / off (or perform other functions). If this occurs, continue pressing the [CH ▲] or [CH ▼] buttons (or the buttons described in Section 14) until you find the correct code for the device you are programming.

- It may take several minutes for the remote to find the correct code that turns your device off (or performs another selected function). During this time, the power / mode buttons will illuminate in fast-rotation (i.e. CABLE → TV → VCR → DVD → AUDIO → CABLE…).

**Programming your electronic devices using the [Ch ▲] or [Ch ▼] buttons ("Power" function during programming)...**

1. Turn on all the electronic devices (TV, VCR, DVD, AUDIO) you want to program the remote to operate.

2. Press [SELECT] then [MUTE] together until the power / mode buttons illuminate in slow-rotation (i.e. CABLE → TV → VCR → DVD → AUDIO → CABLE…).
3. Press and hold the [CH ▲] button until one device turns off. While you are pressing the [CH ▲] button, the power /

mode buttons will illuminate in fast-rotation. As soon as one device turns off, release the [CH ▲] button.

4. Press [MUTE]. If the device that turned off...

   a. Turns back on, press [SELECT] to lock in this code. The power / mode buttons will blink 3-times and go out.

      Or

   b. Does not turn back on, press [CH ▼] one step at a time until that device turns back on. Each time you press the [CH ▼] button, the power / mode buttons will illuminate once in reverse fast-rotation (AUDIO → DVD → VCR → TV → CABLE).

      Once you have found a code that turns the device on / off, press [SELECT] to lock in this code. The power / mode buttons will blink 3-times and go out.

5. Repeat steps 2 to 4 above for each of the remaining electronic devices you wish to program the remote to operate.

## 6. Programming TV / VCR Combinations

1. First, turn on your TV / VCR combination device and install a VHS tape.

2. Next, program your remote to operate the TV functions.

   Using the Code Entry Programming method described in Section 5, find a TV Setup Code that operates the TV functions (power, Vol, ▲/▼, Mute) of your TV / VCR unit.

3. Last, program your remote to operate the VCR functions.

   Using the Code Entry Programming method described in Section 5, enter, lock and test each 3-digit VCR Setup Code for your brand until a code is found that operates the transport functions (play, stop, rew, fwd, pause, rec) of your TV / VCR unit.

## 7. Programming Your TV / DVD or TV / VCR / DVD Combination

1. First, turn on your TV / DVD combination device and install a DVD.

2. Next, program your remote to operate the TV functions.

   Using the Code Entry Programming method described in Section 5, find a TV Setup Code that operates the TV functions (Power, Vol ▲/▼, Mute) of your TV / DVD unit.

3. Last, program your remote to operate the <u>DVD</u> functions.

   Using the Code Entry Programming method described in Section 5, enter, lock and test each 3-digit <u>DVD Setup Code</u> for your brand until a code is found that operates the transport functions (PLAY, STOP, REW, FWD, PAUSE, REC) of your TV / DVD unit.

   Before you can test for the correct DVD setup code, you must first press and hold the [VCR / DVD / VOD] button until the [DVD] button illuminates.

4. If you have a <u>TV / VCR / DVD</u> combination unit, you would then program your remote to operate the <u>VCR</u> functions.

   Using the Code Entry Programming method described in Section 5, enter, lock and test each 3-digit <u>VCR Setup Code</u> for your brand until a code is found that operates the VCR transport functions (PLAY, STOP, REW, FWD, PAUSE, REC) of your TV / DVD / VCR unit.

   Before you can test for the correct VCR setup code, you must first press and hold the [VCR / DVD / VOD] button until the [VCR] button illuminates.

## TV Setup Codes

| Brand | Codes |
|---|---|
| Admiral | 026 054 211 |
| Adventura | 047 |
| Aiwa | 214 |
| Akai | 053 |
| Amark | 023 215 |
| Amstrad | 157 |
| Anam | 217 218 219 220 221 222 223 |
| Apex | 030 038 427 |
| AOC | 053 |
| Audiovox | 220 |
| Belcor | 073 |
| Bell & Howell | 211 |
| Broksonic | 165 167 |
| Brokwood | 073 |
| Candle | 068 091 |
| Centurion | 095 107 108 |
| Citizen | 068 091 211 233 |
| Concerto | 073 095 |
| Contec | 147 |
| Coronado | 023 |
| Craig | 223 |
| Crown | 023 |
| Curtis Mathes | 016 054 107 108 211 213 |
| Daewoo | 051 068 073 095 158 159 189 191 194 196 197 198 200 202 204 205 206 207 209 |
| Daytron | 073 095 107 108 |
| Dumont | 073 |
| Electro Home | 073 095 |
| Elektra | 353 |
| Emerson | 016 023 053 064 103 139 158 159 164 165 166 167 168 169 392 400 401 402 408 415 |
| Envision | 073 095 |
| Fisher | 355 356 |
| Funai | 047 |
| GE | 015 018 042 044 049 054 055 068 073 090 095 101 102 103 389 390 396 403 406 407 |
| Gibralta | 023 048 053 068 073 090 095 107 108 233 360 |
| Goldstar (LG) | 023 053 068 073 090 107 108 233 360 361 |
| Grundig | 233 |
| Hall Mark | 073 095 |
| Hitachi | 023 068 095 096 097 098 099 100 |
| Inkel | 364 |
| JC Penney | 039 053 068 073 092 095 102 355 |
| JVC | 104 105 106 396 397 410 |
| Kawasho | 073 095 |
| KMC | 023 |
| KTV | 023 053 233 366 |
| Kurazai | 211 213 |
| LG (Goldstar) | 023 053 068 073 090 107 108 233 360 361 |
| Lodgenet | 211 213 |
| Logik | 211 213 |
| Luxman | 068 073 095 |
| LXI | 024 026 157 |
| Magnavox (Philips) | 023 068 071 073 072 089 090 091 093 134 385 387 397 404 |
| Majestic | 211 213 |
| Marantz | 053 107 108 109 |
| Megatron | 215 |
| Memorex | 090 211 213 355 388 405 |
| MGA/Mitsubishi | 053 068 073 090 095 107 109 110 216 384 394 395 398 399 |
| Montgomery Ward | 022 023 026 053 071 072 108 211 213 |
| NEC | 028 068 090 108 200 |
| Orion | 019 159 160 161 162 163 382 |
| Panasonic | 042 043 044 045 046 |
| Philco | 023 053 068 071 072 091 |
| Philips(Magnavox) | 023 068 071 073 089 090 091 093 134 385 387 397 404 |
| Pilot | 073 094 233 |
| Pioneer | 111 144 383 |
| Portland | 023 068 |
| ProScan | 055 070 |
| Proton | 090 371 372 |
| Pulsar | 073 |
| Quasar | 044 |
| Radio Shack | 073 |
| Realistic | 022 166 168 |
| RCA | 042 052 053 054 055 069 070 |
| Sampo | 090 108 |
| Samsung | 015 016 017 023 031 090 107 108 134 147 151 153 386 411 |
| Sanyo | 353 355 356 376 377 |
| Scott | 090 108 168 |
| Sears | 023 031 038 039 068 353 355 356 |
| Sharp | 016 022 023 024 025 026 027 028 029 393 395 409 |
| Signature 2000 | 023 026 108 211 213 |
| Sony | 014 020 021 |
| Soundesign | 091 |
| Squareview | 157 |
| Supre-Macy | 380 |
| Sylvania | 068 071 072 090 091 093 107 108 157 158 |
| Symphonic | 047 157 |
| Tatung | 044 |
| Techwood | 068 |
| Teknika | 023 068 072 091 168 213 |
| Telerent | 023 213 |
| Tera | 381 |
| Tevion | 065 414 |
| TMK | 068 090 |
| Toshiba | 030 031 038 039 |
| Totevision | 233 |
| Universal | 068 102 |
| Vidtech | 068 |
| Wards | 068 090 |
| White Westinghouse | 211 408 |
| XR-1000 | 213 |
| Yamaha | 068 |
| York | 090 108 |
| Zenith | 047 048 049 050 051 391 405 406 |

## *VCR Setup Codes*

| Brand | Codes | | | | |
|---|---|---|---|---|---|
| Admiral | 066 | 075 | | | |
| Adventura | | | | | |
| Aiwa | 132 | | | | |
| Akai | 269 | 275 | 336 | 351 | 352 |
| | 354 | | | | |
| Audio Dynamics | 243 | 291 | | | |
| Bell & Howell | 357 | | | | |
| Broksonic | 333 | 337 | 358 | 359 | |
| Canon | 086 | 362 | | | |
| Citizen | 033 | 172 | 247 | 331 | |
| Colortyme | 291 | | | | |
| Craig | 172 | 363 | | | |
| Curtis Mathes | 086 | 112 | 247 | 291 | |
| Daewoo | 033 | 343 | 344 | 345 | 346 |
| | 347 | | | | |
| Daytron | 345 | 365 | | | |
| DBX | 243 | 291 | | | |
| Dynatech | 132 | | | | |
| Emerson | 033 | 086 | 132 | 326 | 327 |
| | 331 | 332 | 333 | 334 | 335 |
| | 336 | 337 | 338 | 339 | 340 |
| | 341 | 342 | | | |
| Fisher | 035 | 081 | 357 | 363 | |
| Funai | 132 | | | | |
| GE | 086 | 172 | 174 | | |
| Go Video | 348 | 349 | 350 | | |
| Goldstar (LG) | 247 | 331 | | | |
| Harman Kardon | 291 | | | | |
| Hitachi | 078 | 132 | | | |
| Instant Replay | 086 | | | | |
| JC Penney | 078 | 086 | 172 | 238 | 291 |
| JCL | 086 | | | | |
| JVC | 120 | 128 | 243 | 247 | 250 |
| | 253 | | | | |
| Kenwood | 120 | 132 | 238 | 243 | 247 |
| LG (Goldstar) | 247 | 331 | | | |
| Lloyd | 132 | | | | |
| Logik | 367 | | | | |
| LXI | 132 | 331 | | | |
| Magnavox (Philips) | 086 | 132 | 183 | | |
| Marantz | 086 | 172 | 183 | 238 | 247 |
| | 291 | | | | |
| Marta | 331 | | | | |
| Matsui | 368 | | | | |
| Memorex | 132 | 238 | 331 | 363 | 369 |
| | 370 | | | | |
| Mitsubishi | 255 | 258 | | | |
| MTC | 132 | 172 | | | |
| Montgomery Ward | 066 | 170 | 173 | 373 | |
| Multi Tech | 132 | 172 | 367 | | |
| NEC | 120 | 238 | 243 | 291 | 374 |
| | 375 | | | | |
| Orion | 322 | 326 | 327 | 328 | 329 |
| | 330 | | | | |
| Panasonic | 112 | 117 | | | |
| Pentax | 078 | | | | |
| Philco | 086 | 132 | 183 | | |
| Philips (Magnavox) | 086 | 132 | 183 | | |
| Pioneer | 078 | 120 | 263 | | |
| Portland | 345 | | | | |
| ProScan | 170 | 174 | | | |
| Quartz | 238 | 378 | | | |
| Quasar | 112 | | | | |
| RCA | 078 | 132 | 141 | 170 | 172 |
| | 173 | 174 | | | |
| Realistic | 066 | 132 | 238 | 363 | |
| Samsung | 269 | 271 | 275 | 276 | 278 |
| Sansui | 120 | 367 | 379 | | |
| Sanyo | 238 | 346 | 357 | 363 | |
| Scott | 033 | 332 | 367 | | |
| Sears | 035 | 078 | 238 | 331 | 363 |
| Sharp | 066 | 075 | | | |
| Shintom | 367 | | | | |
| Signature 2000 | 066 | 170 | 173 | 373 | |
| Sony | 056 | 058 | 060 | | |
| Soundesign | 132 | | | | |
| Sylvania | 086 | 132 | 141 | 183 | 184 |
| | 322 | 324 | | | |
| Symphonic | 132 | | | | |
| Tandy | 132 | 238 | | | |
| Tashiko | 331 | | | | |
| Tatung | 243 | | | | |
| Teac | 132 | 243 | | | |
| Technics | 086 | | | | |
| Teknika | 132 | 331 | 359 | | |
| Thomas | 132 | | | | |
| TMK | 338 | | | | |
| Toshiba | 033 | 035 | 078 | 081 | |
| Totevision | 172 | 331 | | | |
| Unitech | 172 | | | | |
| Vector Research | 291 | | | | |
| Video Concepts | 132 | 291 | | | |
| Wards | 066 | 132 | 172 | 247 | 331 |
| XR-1000 | 367 | | | | |
| Yamaha | 132 | 243 | 291 | | |
| Zenith | 058 | 120 | 122 | 128 | 132 |

## DVD Setup Codes

| Brand | Codes | | | | |
|---|---|---|---|---|---|
| Apex Digital | 193 | 227 | | | |
| B144 | 146 | | | | |
| Denon | 201 | 203 | | | |
| DVD-Video | 199 | | | | |
| ECA | 156 | | | | |
| GE | 150 | 152 | 156 | 175 | |
| Goldstar (LG) | 129 | 133 | 135 | 179 | 260 |
| Gradiente | 212 | 234 | | | |
| Harmon Kardon | 256 | 259 | | | |
| Hitachi | 149 | | | | |
| JVC | 177 | 179 | | | |
| Kenwood | 228 | | | | |
| KLH | 248 | 252 | | | |
| LG (Goldstar) | 129 | 133 | 135 | 179 | 260 |
| Magnavox | 138 | 143 | 146 | | |
| Marantz | 270 | | | | |
| Mitsubishi | 181 | 185 | | | |
| NAD | 246 | | | | |
| Onkyo | 085 | 244 | | | |
| Panasonic | 115 | 118 | 121 | 124 | |
| Pioneer | 125 | 187 | 188 | | |
| Proceed | 236 | | | | |
| Samsung | 192 | 224 | 225 | | |
| Sharp | 034 | 076 | 077 | 079 | |
| Sony | 040 | 059 | 061 | | |
| Thomson | 156 | 237 | | | |
| Toshiba | 082 | 085 | 087 | 113 | |
| Yamaha | 121 | 124 | 210 | | |
| Zenith | 129 | 133 | 135 | | |

## *Audio Setup Codes*

### Compact Disc

| Brand | Codes | | | | |
|---|---|---|---|---|---|
| ADC | 318 | | | | |
| Akai | 249 | 261 | | | |
| Aiwa | 176 | | | | |
| Carver | 176 | | | | |
| Crown | 154 | | | | |
| Denon | 273 | | | | |
| Fisher | 230 | 274 | | | |
| Goldstar (LG) | 308 | | | | |
| Harman Kardon | 315 | | | | |
| JVC | 297 | | | | |
| Kenwood | 131 | 176 | 274 | 289 | 299 |
| Krol | 176 | | | | |
| LG (Goldstar) | 308 | | | | |
| Magnavox (Philips) | 037 | 084 | 119 | 296 | |
| Mission | 176 | | | | |
| Mitsubishi | 245 | 249 | | | |
| NAD | 182 | 231 | 290 | | |
| Nakamichi | 264 | 319 | | | |
| NEC | 235 | | | | |
| NSM | 176 | | | | |
| Onkyo | 300 | | | | |
| Panasonic | 184 | 266 | | | |
| Philips (Magnavox) | 037 | 084 | 119 | 296 | |
| Pioneer | 116 | 127 | | | |
| Quasar | 184 | | | | |
| Radio Shack | 186 | 190 | 266 | 279 | 289 |
| RCA | 295 | | | | |
| Sanyo | 230 | 309 | | | |
| SAE | 176 | | | | |
| Scott | 186 | | | | |
| Sharp | 288 | 289 | | | |
| Sony | 067 | 292 | 293 | | |
| Soundesign | 148 | 242 | 311 | 320 | |
| STS | 318 | | | | |

| | | | |
|---|---|---|---|
| Sylvania | 084 | | |
| Teac | 186 | | |
| Technics | 184 | 208 | 317 |
| Toshiba | 290 | | |
| Yamaha | 280 | | |

### Receiver / Amplifier

| | | | | |
|---|---|---|---|---|
| Adcom | 325 | | | |
| Aiwa | 301 | | | |
| Akai | 142 | | | |
| Bose | 302 | | | |
| Carver | 155 | 180 | | |
| Denon | 262 | 307 | | |
| Everquest | 136 | | | |
| Fisher | 063 | 180 | | |
| Fosgate Audionics | 305 | | | |
| Goldstar (LG) | 036 | | | |
| Harman Kardon | 130 | 257 | 305 | 306 |
| Hitachi | 240 | | | |
| Jensen | 140 | | | |
| JVC | 114 | 241 | | |
| Kenwood | 063 | 277 | | |
| LG (Goldstar) | 036 | | | |
| Luxman | 281 | | | |
| Magnavox | 080 | | | |
| Marantz | 282 | 283 | 284 | 285 |
| NAD | 286 | | | |
| Onkyo | 126 | 171 | 304 | |
| Optimus | 142 | 229 | 321 | |
| Panasonic | 032 | 074 | | |
| Parasound | 323 | | | |
| Philips (Magnavox) | 080 | | | |
| Pioneer | 123 | 137 | 251 | 298 |
| Quasar | 032 | | | |
| Radio Shack | 229 | 267 | | |
| Realistic | 226 | 268 | | |
| Rotel | 310 | | | |
| Sansui | 283 | | | |
| Sanyo | 195 | | | |
| Scott | 272 | | | |
| Sharp | 294 | | | |
| Sherwood | 229 | 267 | | |
| Sony | 041 | 057 | 232 | 287 |
| Soundesign | 083 | 088 | 239 | 265 |
| SSI | 313 | | | |
| Taekwang | 142 | | | |
| Teac | 314 | 316 | | |
| Technics | 032 | | | |
| Wards | 063 | | | |
| Victor | 114 | 241 | | |
| Yamaha | 145 | 254 | 303 | |
| Zenith | 036 | 083 | 088 | 239 | 265 |

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### 8.  Programming Volume Control
</div>

When you first program your remote, volume / mute are controlled through your TV (except AUDIO volume which defaults to the AUDIO device).

The volume control options in each mode of the remote are:

| | |
|---|---|
| CABLE | TV (default), Cable or Audio. |
| TV | TV (default), Cable or Audio. |
| VIDEO | TV (default), Cable or Audio. |
| DVD | TV (default), Cable or Audio. |
| AUDIO | Audio (default), Cable or TV. |

**To control volume / mute through your cable set-top terminal in the remote's <u>Cable</u> mode…**

1.  Press [CABLE], then [SELECT] together - hold <u>both</u> buttons down until the [CABLE] button lights up.

2.  Press [VOL ▲], then [CABLE] for cable volume. The [CABLE] button will blink and go out.

To return volume control back to your TV, repeat step 1. above, then press [VOL ▲], then [TV] in step 2.

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### 9.  Your Remote's SmartKeys™
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Your remote has two (2) SmartKeys™ - [CABLE] and [TV], that operate in its <u>cable</u> mode.  Each SmartKey™ can be programmed to transmit multiple functions.

**Programming and using the [<u>CABLE</u>] SmartKey™**

The [CABLE] button normally turns on / off your cable set-top terminal.  To program the [CABLE] button to transmit multiple pre-programmed functions, follow the steps below:

1.  Press [DEVICE], then [CABLE] to select the cable mode of your remote.

2.  Press [CABLE], then [MENU] together - hold <u>both</u> buttons down until the [CABLE] button lights up.

3.  Press the option number below for the desired functions:

| Option | Pre-Programmed to turn on… |
|---|---|
| | |
| [1] | Cable & TV - tune TV to Ch 3 |
| [2] | Cable & TV - tune TV to Ch 2 |
| [3] | Cable & TV - tune TV to Ch 4 |
| | |
| [4] | Cable, TV & VCR - tune TV to Ch 3 |
| [5] | Cable, TV & VCR - tune TV to Ch 2 |
| [6] | Cable, TV & VCR - tune TV to Ch 4 |
| | |
| [7] | Cable, TV, VCR & AUDIO - tune TV to Ch 3 |
| [8] | Cable, TV, VCR & AUDIO - tune TV to Ch 2 |
| [9] | Cable, TV, VCR & AUDIO - tune TV to Ch 4 |

| | |
|---|---|
| [A] | Cable, TV, VCR, AUDIO & DVD - tunes TV to Ch 3 |
| [B] | Cable, TV, VCR, AUDIO & DVD - tunes TV to Ch 2 |
| [C] | Cable, TV, VCR, AUDIO & DVD - tunes TV to Ch 4 |
| | |
| [0] | Cable box only (default) |

4.  The [CABLE] button will blink and go out, storing the selected option.

**Programming and using the [<u>TV</u>] SmartKey™**

The [TV] button normally turns on / off your TV.  To program the [TV] button to transmit multiple pre-programmed functions, follow the steps below:

1.  Press [DEVICE], then [CABLE] to select the cable mode of your remote.

2.  Press [TV], then [MENU] together - hold <u>both</u> buttons down until the [TV] button lights up.

3.  Press the option number below for the desired functions:

| Option | Pre-programmed to turn on… |
|---|---|
| | |
| [1] | TV - tune TV to Ch 3 |
| [2] | TV - tune TV to Ch 2 |
| [3] | TV - tune TV to Ch 4 |
| | |
| [0] | TV only (default) |

4.  The [TV] button will blink and go out, storing the selected option.

**Remember:**  When using any SmartKey™ to transmit a series of functions, be sure to keep your remote aimed at the devices to ensure all functions are received in their entirety.

<div style="background:black;color:white">

### 10.  Code Number Read Back
</div>

To identify the 3-digit setup codes stored under the Point and Press® programming method, follow these steps:

**To identify the TV setup code…**

1.  Press [TV], then [SELECT] together - hold both buttons down until [TV] illuminates.

2.  Press [INFO].  The [TV] button will "blink back" the code numbers, with a 1-second interval between each digit of the code.

Example: For code "035", the remote will blink 10 times, then 3 times, then 5 times.

To identify the 3-digit VCR code, press [VCR], then [SELECT] in step 1, then press [INFO].

To identify the 3-digit DVD code, press [DVD], then [SELECT] in step 1, then press [INFO].

To identify the 3-digit AUDIO code, press [AUDIO], then [SELECT] in step 1, then press [INFO].

## 11. Mode Lock™

Your RT-U50 remote comes locked in its cable operating mode. While locked in its cable mode, it can control all cable set-top operations, as well as power on your TV, VCR, DVD and AUDIO devices.

**To operate more functions on your TV, VCR, DVD and AUDIO devices, you can unlock the remote as follows:**

1. Press [CABLE], then [MUTE] together - hold both buttons down until the [CABLE] button lights up.

2. Press [9, 9, 9]. The [CABLE] button will blink and go out.

**To lock your remote back in its cable operating mode...**

1. Press [CABLE], then [MUTE] together - hold both buttons down until the [CABLE] button lights up.

2. Press [0, 0, 0]. The [CABLE] button will blink and go out.

## 12. Resetting Your Remote Control

To reset you remote to its factory default settings...

1. Press [CABLE], then [SELECT] together - hold both buttons down until the [CABLE] button lights up.

2. Press [MENU], then [MENU] again.

3. [CABLE] button will blink and go out.

## 13. [TV / VCR INPUT] Button

This button changes the input source of your electronic devices. In the remote's Cable mode, this operates a Cable function on set-top boxes so equipped. In the remote's TV mode, this button changes the Input Source (Input 1, Input 2...) on your TV. In the remote's VCR mode, this button changes the Input Source (TV / VCR) on your VCR.

You can program this button so that in the remote's cable

mode, [TV / VCR INPUT] will operate the Input source on your TV, or the TV / VCR function on your VCR, eliminating the need to change modes on the remote.

**To program [TV / VCR INPUT] to operate your TV Input function in the remote's cable mode...**

1. Press [TV / VCR INPUT], then [SELECT] together until the [CABLE] power / mode button illuminates.

2. Press [TV]. The [CABLE] button will blink and go out.

**Note**: You can also press [VCR] in step 2 above to operate the TV / VCR function on your VCR. Or press [CABLE] to return to the normal Cable function on set-top terminals so equipped.

## 14. Additional Programming Information Troubleshooting, Terms

**Additional Programming Information**

1. The power / mode buttons will illuminate in slow-rotation (i.e. CABLE → TV → VCR → DVD → AUDIO → CABLE…) while the remote is in a programming mode. In the absence of a keypress entry, the power / mode buttons will stop illuminating after 45-seconds and the remote will exit the programming mode.

2. When programming the remote control using the [CH▲] or [CH ▼] buttons (Power function) in the Point and Press® Programming method, you may find a code that turns a device off but not back on. If this happens…

   a. The correct code has not been found as you may have a code that operates some but not all of the functions of your device. Continue pressing [CH▲] until your device turns on.

   OR

   b. You may have gone past the correct matching code. Try pressing [CH▼] one press at a time until you find a code that turns your device back on.

3. When using the Point and Press® Programming method, you can also program your remote using buttons other than the [CH▲] or [CH ▼] as described in Section 5 as follows:

   a. [VOL▲] – to "go forward" through the codes using the "VOL▲" function on your devices.
   b. [VOL▼] – to "go back" through the codes using the "VOL▼" function on your devices.
   Note: When you find the correct code, the volume of the device being programmed will increase or decrease.

   c. [▲] - to "go forward" through the codes using the "Ch ▲" function on your devices.

   d. [▼] - to "go back" through the codes using the "Ch ▼" function on your devices.

   Note: When you find the correct code, the channel of the device being programmed will increase or decrease.

   e. [►] - to "go forward" through the codes using the "Fast Forward" function on your devices.

   f. [◄] - to "go back" through the codes using the "Rewind" function on your devices.

   Note: When you find the correct code, the fast-forward or rewind function of the device being programmed will be performed. To simplify programming using these buttons, insert a VHS tape or DVD in the device being programmed.

You can also program your remote using the other available functions as follows:

   a. Press [SELECT] then [MUTE] together until the power / mode buttons illuminate in slow-rotation (i.e. CABLE → TV → VCR →DVD → AUDIO → CABLE…).

   b. In this order, carefully press [0], [0], [0], [CH▲] and [VOL ▲]. The power / mode buttons illuminate in slow-rotation (i.e. CABLE → TV → VCR → DVD → AUDIO → CABLE…).

   c. You can now program your remote using the [CH ▲/▼], [Vol ▲/▼],[FFWD], [REW], [PLAY], [STOP], [REC], [PAUSE], [LAST], [FAV], [0] - [9] buttons. When you find the correct code, the function associated with the selected button will be performed.

4. Your remote is equipped with 2 programming labels on the back of its case.

   a. Point and Press® Programming - This will help you quickly program the remote without using codes.

   b. Mode-Lock™ - Your model RT-U50 comes "locked" in its cable-operating mode. To operate more functions on your TV, VCR, DVD and AUDIO devices, you can unlock your remote using the simple instructions on the back of your remote or refer to Section 10.

## Troubleshooting / Tips

1. If the same button is pressed and held for 45-seconds, your remote control will turn itself off automatically. This extends the battery life should the remote become lodged

under or between heavy objects, for example sofa cushions.

2. If you have a TV that's operated by remote control, it is recommended that you plug it directly into a wall outlet instead of the cable set-top terminal.

3. If you have any questions concerning the brand, model or operation of your cable set-top terminal, contact your cable operator.

4. If the [DEVICE] button is not operating, the remote is in its locked mode. To set the remote to its unlocked mode, see Section 10.

sequence (i.e. CABLE $\to$ TV $\to$ VCR --> DVD --> AUDIO $\to$ CABLE…) repeated every 1 second. Slow-rotation illumination occurs when the remote is in the programming mode, waiting for the next entry on the keypad of the remote.

TV Output Channel - The channel your TV needs to be set on for proper Cable reception (most often TV channel 3, but may be TV channel 2 or 4). If you have any questions concerning your TV output channel, contact your cable operator. Or, with your cable set-top terminal turned on, try setting your TV to channel 2, 3 or 4 to obtain a clear picture.

Transport Functions - These are the [Stop], [Play], [Fwd], [Rew], [Pause] and [REC] buttons. In the remote control's Cable mode, these buttons operate your Cable set-top features. However, by using the VCR / VOD / DVD toggle button, they can be set to operate the same functions on your VCR or DVD player.

Video Devices - VCR or DVD players.

**Frequently Used Terms**

Audio Devices - Audio receivers, amplifiers, CD players that you can program your remote to operate.

Default Setting – How your remote is set when you receive it from your cable operator.

Electronic Components / Devices - The various electronic devices the remote is designed to operate. These include cable set-top terminals, TVs, VCRs, DVDs, receivers, amplifiers and CD players.

Fast-Rotation - The power / mode buttons will illuminate in a fast sequence (i.e. CABLE $\to$ TV $\to$ VCR --> DVD $\to$ AUDIO $\to$ CABLE…) repeated every 1/3 second. Fast-rotation occurs when the remote is receiving keypresses to program it to your electronic devices.
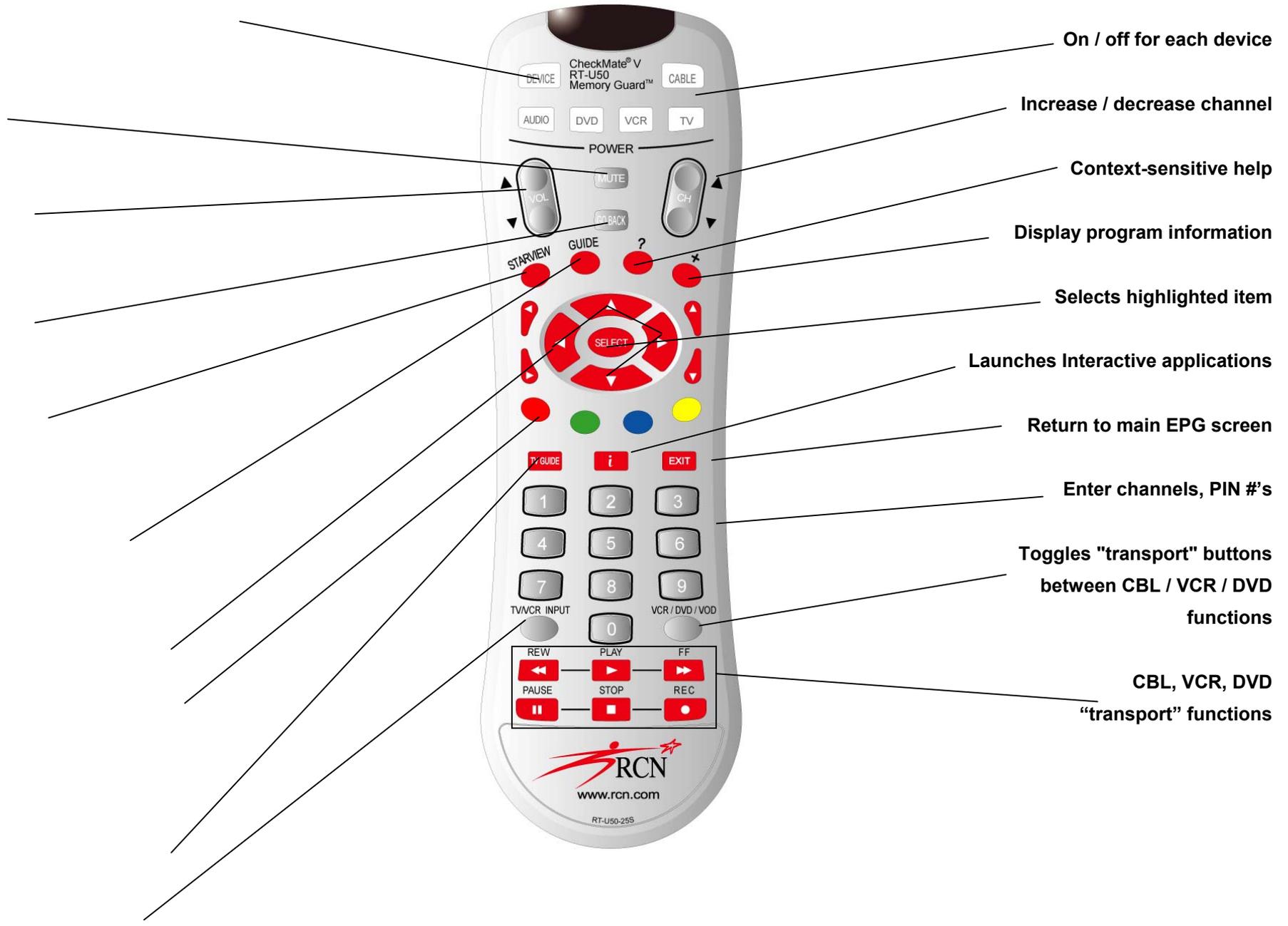
Mode - The device the remote is set to operate (ex. Cable, TV, VCR, DVD, AUDIO). See Section 10 for locking and unlocking the mode of the remote control.

Program (Setup) – The process of teaching your remote control to operate your electronic devices.

Slow-Rotation - The power / mode buttons illuminate in a slow

**DEVICE**
**In "unlocked" mode setting illuminates device being operated. Press [DEVICE], then CABLE, TV, VCR, DVD, AUDIO to change device being operated**

CheckMate® V
RT-U50
Memory Guard™

DEVICE    CABLE

AUDIO    DVD    VCR    TV

POWER

VOL    MUTE    CH

GO BACK

STARVIEW    GUIDE    ?    ✕

SELECT

TV GUIDE    i    EXIT

1    2    3
4    5    6
7    8    9

TV/VCR INPUT    0    VCR / DVD / VOD

REW    PLAY    FF

PAUSE    STOP    REC

RCN
www.rcn.com

RT-U50-25S

On / off for each device

Increase / decrease channel

Context-sensitive help

Display program information

Selects highlighted item

Launches Interactive applications

Return to main EPG screen

Enter channels, PIN #'s

Toggles "transport" buttons
between CBL / VCR / DVD
functions

CBL, VCR, DVD
"transport" functions